

Mehmet Koseoglu

CONTACT INFORMATION	Dept. of Computer Engineering Hacettepe University TR-06800 Beytepe, Ankara Turkey	<i>Mobile:</i> 90-536-448-2077 <i>Work:</i> 90-312-780-7513 <i>Fax:</i> 90-312-297-7502 mkoseoglu@cs.hacettepe.edu.tr web.cs.hacettepe.edu.tr/ mkoseoglu
EDUCATION	Ph.D. , Electrical and Electronics Engineering, Bilkent University, 2013 M.S. , Electrical and Electronics Engineering, Bilkent University, 2007 B.S. , Electrical and Electronics Engineering, Bilkent University, 2004	
ACADEMIC APPOINTMENTS	Assistant Professor , Hacettepe University Department of Computer Engineering	2015-present
	Postdoctoral Researcher , Bilkent University Department of Electrical and Electronics Engineering	2013 to 2014
	Research Assistant , Bilkent University Department of Electrical and Electronics Engineering	2006 to 2013
INDUSTRY EXPERIENCE	Aselsan Inc. , Ankara, Turkey <i>Software Engineer</i>	2004 to 2006
REFEREED JOURNAL PUBLICATIONS	M. Koseoglu, E. Karasan and L. Chen. Cross-layer Energy Minimization for Underwater ALOHA Networks. <i>IEEE Systems Journal</i> . 11(2): 551-561. 2017. M. Koseoglu. Pricing-based Load Control of M2M Traffic for the LTE-A Random Access Channel. <i>IEEE Transactions on Communications</i> . 65(3): 1353-1365. 2017. M. Koseoglu. Lower Bounds on the LTE-A Average Random Access Delay under Massive M2M Arrivals. <i>IEEE Transactions on Communications</i> . 64(5): 2104-2115. 2016. M. Koseoglu and E. Karasan. Energy-optimum Carrier Sensing Rate and Throughput in CSMA-based Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> . 13(6): 1200-1212. 2014. M. Koseoglu and E. Karasan. Spatio-Temporal Analysis of Throughput for Single-Hop CSMA Networks. <i>IEEE Communications Letters</i> . 18(4): 564-567. 2014. M. Koseoglu and E. Karasan. Throughput Modeling of Single Hop CSMA Networks with Non-Negligible Propagation Delay. <i>IEEE Transactions on Communications</i> . 61(7):2911-2923. 2013. M. Koseoglu, E. Karasan and M. Alanyali. Effect of network density and size on the short-term fairness performance of CSMA systems. <i>EURASIP Journal on Wireless Communications and Networking</i> . 2012(1):367. 2012.	

- M. Koseoglu and E. Karasan. Joint resource and network scheduling with adaptive offset determination for optical burst switched grids. *Future Generation Computer Systems*. 26(4):576–589. 2010.
- CONFERENCE PUBLICATIONS
- M. Koseoglu. Performance Analysis of Small Data Transmission Schemes for Cellular M2M Communications In: *16th Annual Mediterranean Ad Hoc Networking Workshop (MED-HOC-NET)*, Budva, Montenegro, 2017.
- A. Bereketli, I. Yazg, B. Yeni and M. Koseoglu. Battery-Powered AUV Network Lifetime Under Energy Constraints In: *IEEE/MTS OCEANS*, Aberdeen, Scotland, 2017.
- A. Bereketli, M. Tumcakir, I. Yazgi, B. Yeni, M. Koseoglu and T. M. Duman. Connectivity Analysis of an AUV Network with OFDM Based Communications In: *IEEE OES International Symposium on Underwater Technology (UT)*, Busan, South Korea, 2017.
- M. Koseoglu, A. Bereketli, I. Yazgi and B. Yeni. Probabilistic Broadcast for Dense AUV Networks In: *IEEE/MTS OCEANS*, Monterey, CA, September, 2016
- M. Koseoglu. Smart Pricing for Service Differentiation and Load Control of the LTE-A IoT System In: *IEEE World Forum on Internet of Things*, Milan, Italy, December, 2015.
- M. Koseoglu and E. Karasan. Joint Path and Resource Selection for OBS Grids with Adaptive Offset Based QoS Mechanism. In: *Proceedings of the First International Conference on Networks for Grid Applications*, Lyon, France, October, 2007.
- GRANTS
- **Principal Investigator:** Improving the Energy Efficiency of the Random Access Procedure of the LTE-Advanced Standard for Machine-to-Machine Communications. Funded by TUBITAK (Scientific and Technological Research Council of Turkey). July 2015 - July 2017
- AWARDS
- **Fulbright Postdoctoral Research Grant**, 2017.
 - **Google IoT Technology Research Award**, 2016.
 - **Best presentation award**, Communications/Networks Area, Graduate Research Conference, Department of Electrical and Electronics Engineering, Bilkent University, 2013.
 - **Best poster award**, Graduate Research Conference, Department of Electrical and Electronics Engineering, Bilkent University, 2006.
 - **Full fellowship for graduate study**, Bilkent University, 2006–2013.
 - **Full fellowship for undergraduate study**, Bilkent University, 2000–2004.
 - **Turkiye Is Bankasi Anniversary Award** for outstanding performance in the national university entrance exam, 2000.
 - **3rd place in the nation-wide university entrance examination among a million students**, 2000.
- THESES
- M. Koseoglu. *Performance Analysis of the CSMA Protocol for Future Generation Wireless Networks*. Ph.D. thesis, Bilkent University, 2013.

M. Koseoglu. *Joint Path and Resource Selection for OBS Grids with Adaptive Offset Based QoS Mechanism*. M.Sc. thesis, Bilkent University, 2007.

SEMINARS

Smart Pricing for Service Differentiation and Load Control of the LTE-A IoT System, Chalmers University, Goteburg, Sweden, October 2015.

Cross-layer Performance Optimization of Adaptive Modulation and Coding for CSMA Networks, Newcom# Dissemination Event, Lisbon, Portugal, February 2014.

Congestion-Based Resource Selection and Path Switching for Consumer Grids over OBS, e-Photon/ONe+ Summer School, Zagreb, Croatia, September 2006.

TEACHING
EXPERIENCE

Hacettepe University, Ankara, Turkey

Instructor

2015 - present

- Computer Architecture (2016-2017 Spring)
- Digital Logic Design & Laboratory (2016-2017 Fall)
- Computer Networks & Laboratory (2014-2015 Fall, 2015-2016 Fall)
- Embedded Systems & Laboratory (2014-2015 Fall, 2015-2016 Spring, 2016-2017 Spring)
- Computer Networks - Grad. Level (2015-2016 Spring, 2016-2017 Fall)
- Systems Programming (2015-2016 Fall)
- Mobile Computing (2014-2015 Fall)
- Data Communications (2013-2014 Spring)

Bilkent University, Ankara, Turkey

Teaching Assistant

2006-2013

- Ranked “excellent” for 6 semesters by the graduate scholarship committee as a teaching assistant.

RESEARCH
EXPERIENCE

Hacettepe University, Ankara, Turkey

Principal Investigator

2015-present

- Funding: The Scientific and Technological Research Council of Turkey

Bilkent University, Ankara, Turkey

Postdoctoral Researcher

2013-2014

- Funding: 7th European Community Framework Programme for Research and Technological Development (FP7) Project Newcom#

Research Assistant

2007-2013

- Funding: The Scientific and Technological Research Council of Turkey

Research Assistant

2006-2007

- Funding: 6th European Community Framework Programme for Research and Technological Development (FP6)

Boston University, Boston, MA, USA

Visiting Researcher

Summer 2010

- Hosted by Murat Alanyali.

PROFESSIONAL
SERVICE

Technical Program Committee Membership

- *IEEE GLOBECOM 2015, Wireless Networking Symposium*

Referee for the following journals

- *IEEE Communications Magazine*
- *IEEE Transactions on Communications*
- *IEEE Transactions on Vehicular Technology*
- *IEEE Communications Letters*
- *IEEE Wireless Communications Letters*
- *Eurasip Journal on Communications and Networking*
- *International Journal of Distributed Sensor Networks*
- *Optical Switching and Networking*
- *Turkish Journal of Electrical Engineering and Computer Sciences*

Referee for the following conferences

- *IEEE CCNC*
- *IEEE ICC*
- *IEEE ISCC*
- *IEEE GLOBECOM*